

### Abstract of the Disclosure

A method and apparatus for creating a groove in the surface of a collector ring for use in an electrical device. The method and apparatus can be used to create a new groove in the surface of a collector ring having none, or can be used to enhance or re-form an existing groove in the surface of a collector ring. In some embodiments, the groove in the surface of the collector ring is created using a cutting tool that has a cutting action that functions independently from the motion of the collector ring. In other embodiments, a masking material is positioned over a portion of the surface of the collector ring to create a masked portion and an exposed portion of the surface of the collector ring. A groove is then created in the exposed portion of the surface of the collector ring. The masking material is then removed from the surface of the collector ring.